

FIG. 2

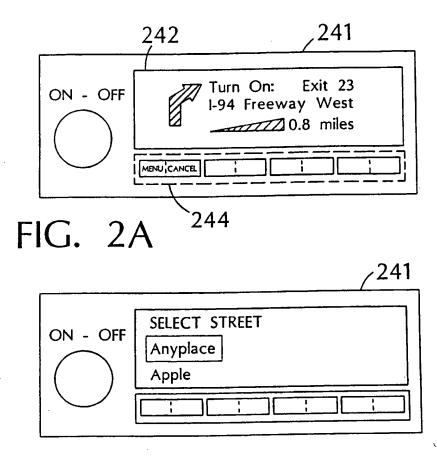


FIG. 2B

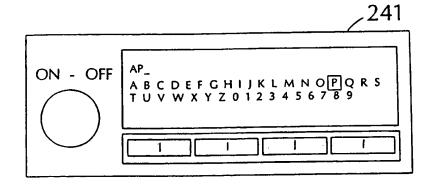
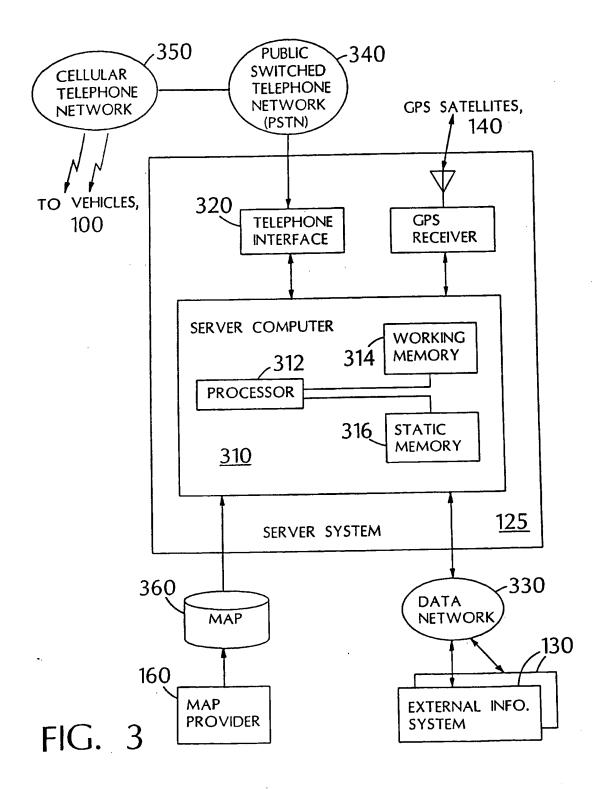


FIG. 2C



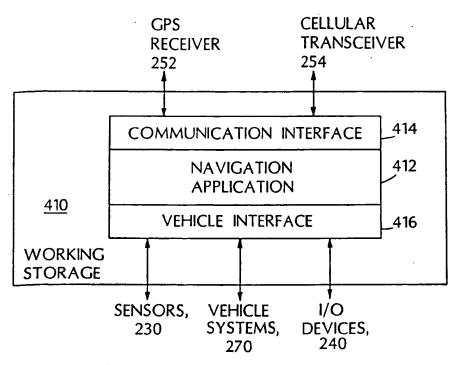


FIG. 4A

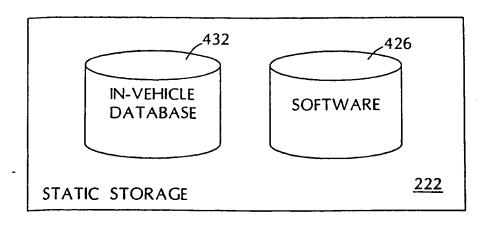
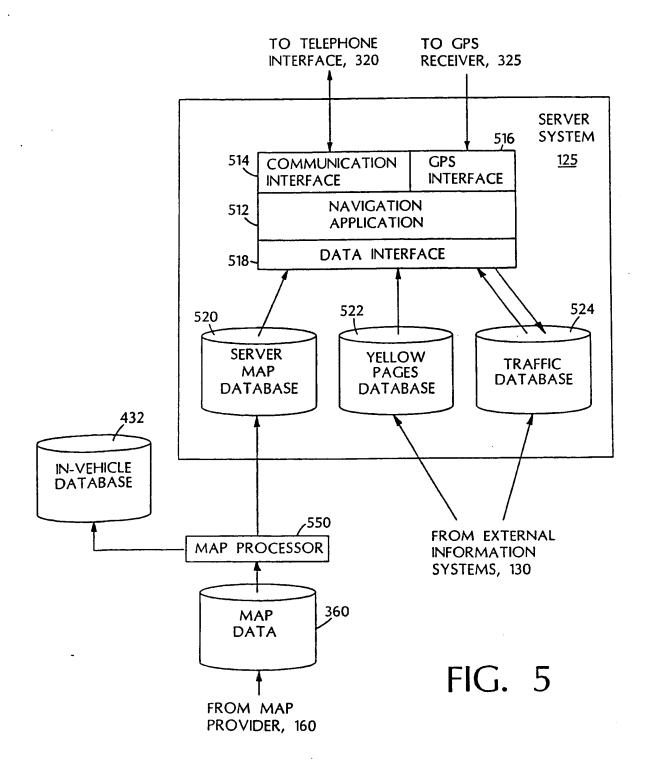
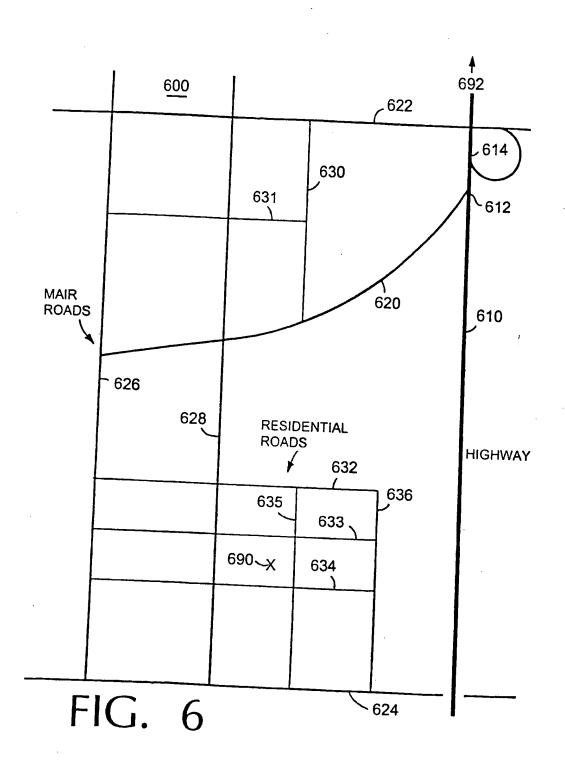


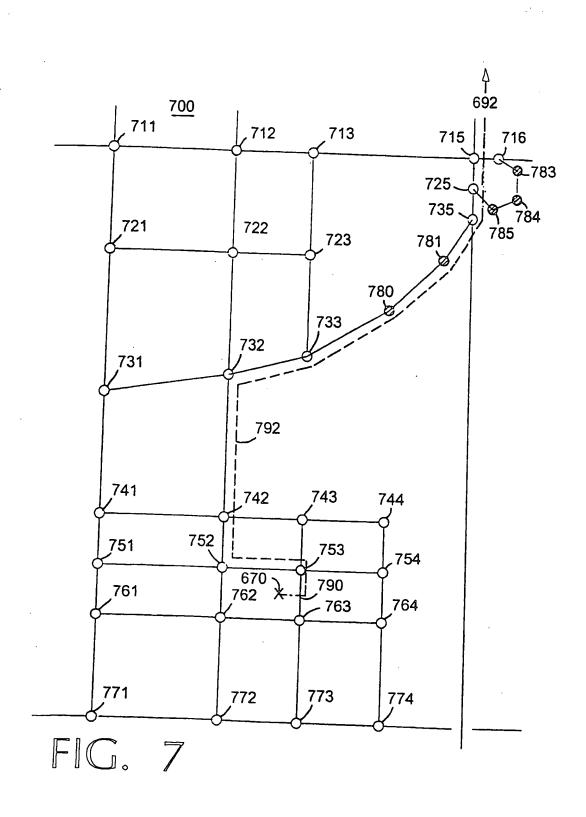
FIG. 4B



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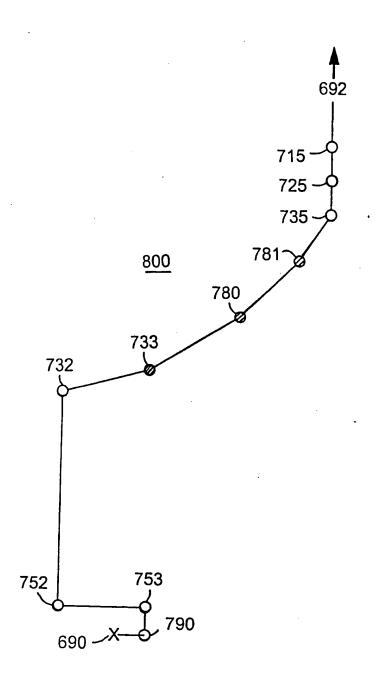
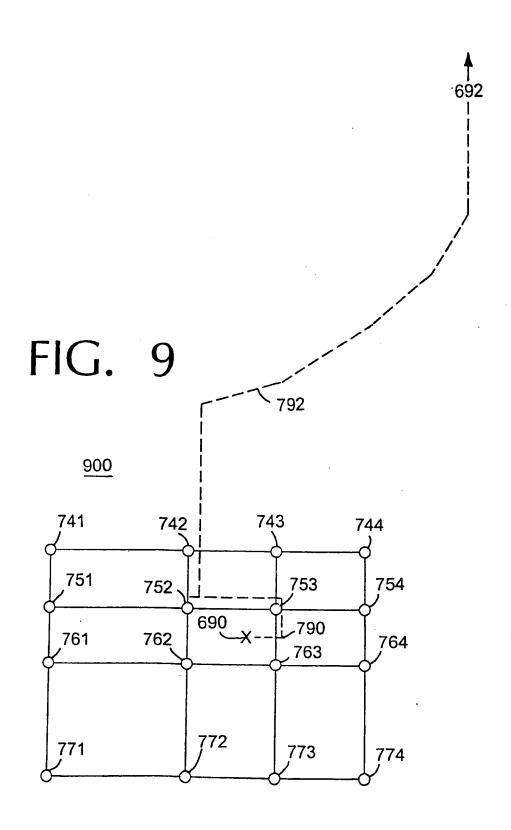


FIG. 8



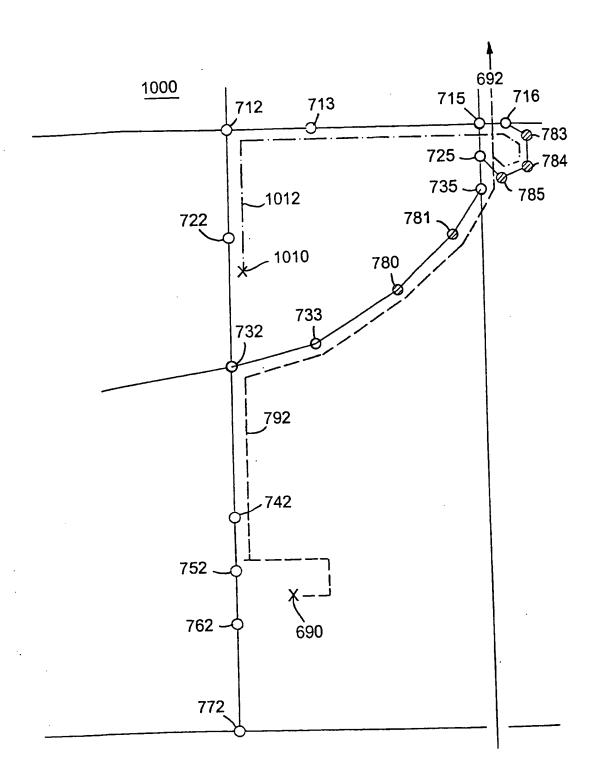
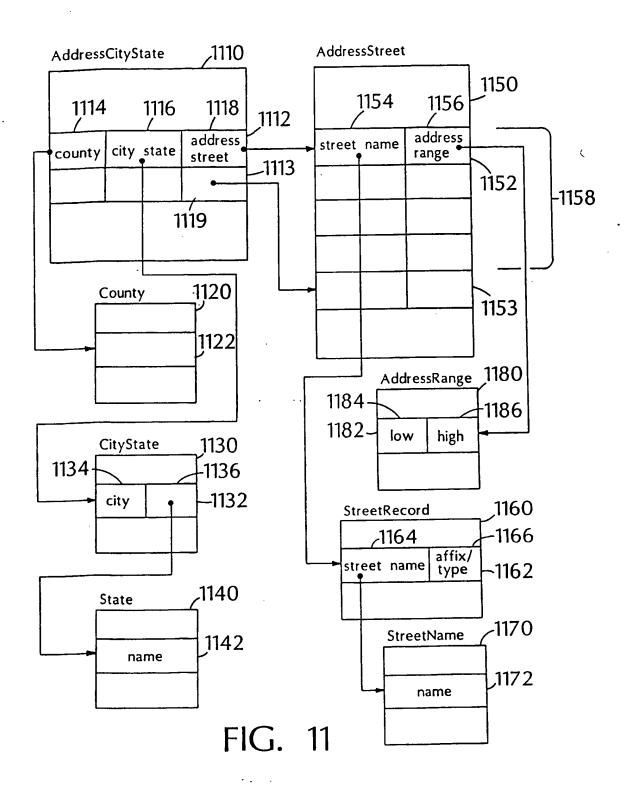


FIG. 10



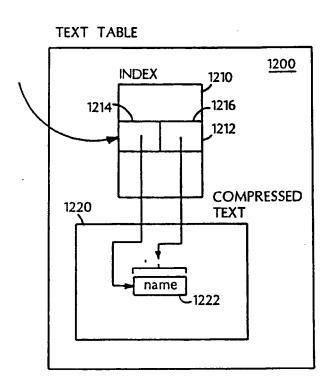


FIG. 12

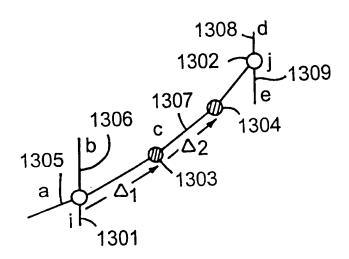
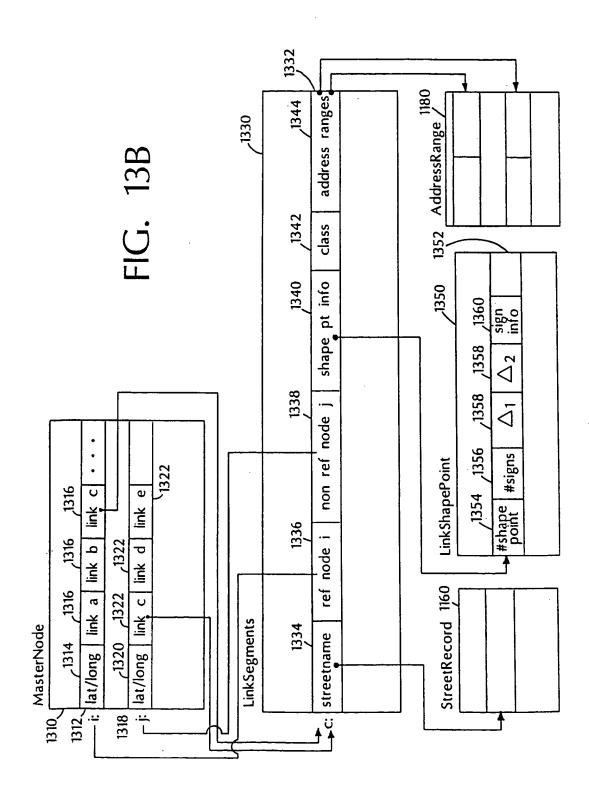
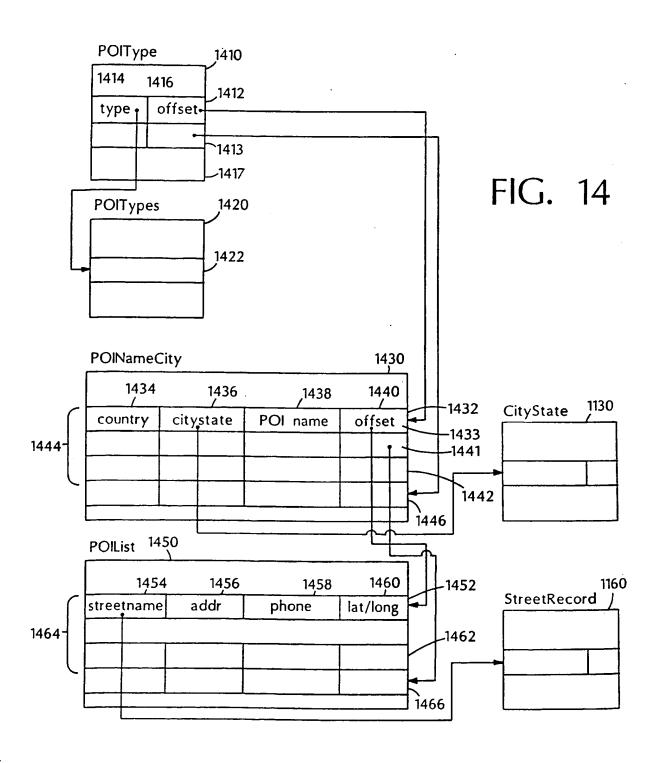


FIG. 13A





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Applicant(s): Bob Drury et al. DRIVER INFORMATION SYSTEM

1501	Plan Route (In-Vehicle):
1502	Accept Destination Specification from Operator
1503	Determine Current Location Data
1504	Establish Communication Session with Server
1505	Send Destination Specification and Current Location Data to Server
1506	IF Destination Specification Requires Server Interaction THEN
1507	Accept Secondary Destination Specification Data from Server
1508	Accept Secondary Destination Specification from Operator
1509	Send Secondary Destination Specification to Server
1510	END IF
1511	Wait for Server Response
1512	Receive Planned Route, Spot Map, and Differential GPS Data from Server
1513	Close Communication Session with Server

FIG. 15A

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DRIVER INFORMATION SYSTEM

1551	Plan Route (Server):
1552	Accept Communication Session with Vehicle
1553	Receive Destination Specification and Current Location Data from Vehicle
1554	Determine DGPS Correction Data
1555	Determine Vehicle Location
1556	IF Destination Specification Requires Further Operator Input THEN
1557	Determine Secondary Destination Specification Data
1558	Send Secondary Destination Specification Data to Vehicle
1559	Receive Secondary Destination Specification from Vehicle
1560	END IF
1561	Determine Planned Route to Specified Destination
1562	Determine Spot Map near Vehicle Location
1563	Send Planned Route, Spot Map, and DGPS Data to Vehicle
1564	Close Communication Session with Vehicle

FIG. 15B

1601 Startup Maneuvers:

1602 Initialize Estimated Location using Differential GPS Data

1603 WHILE Estimated Location is not at a Point of the Planned Route DO

1604 Track Estimated Location using (D)GPS Data

1605 Display Spot Map and Estimated Location on Display

1606 END WHILE

FIG. 16

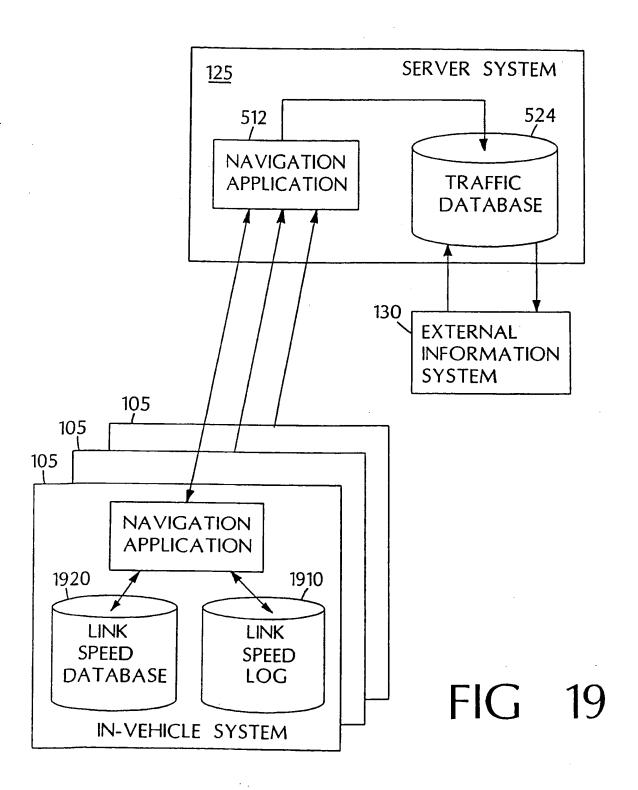
1801	Replan Route:
1802	Estimate Vehicle Location of Main Roads Network using
1803	Dead-Reconing Location
1804	Calculate Best Route to a Maneuver or Way Point on the Previous
1805	Planned Route
1806	Replace Planned Route with Newly Calculated Route
1807	GOTO Follow Route

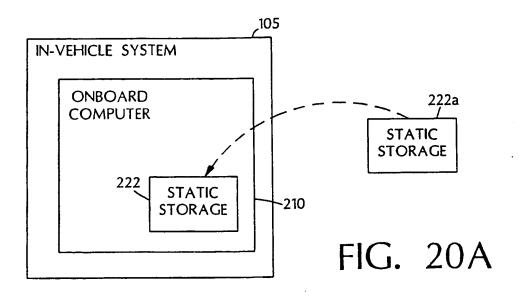
FIG. 18

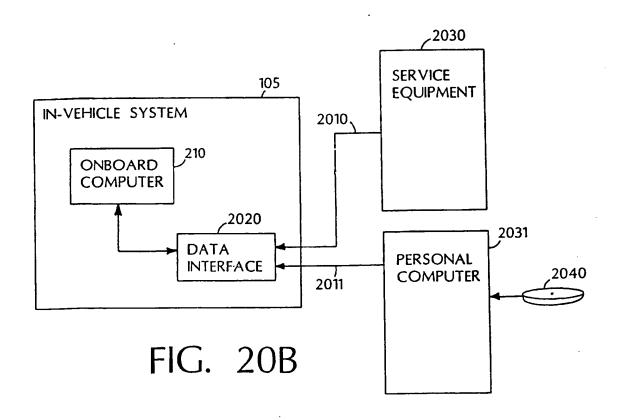
1701	Follow Route:
1702	FOR Each Link on Planned Route DO
1703	At Initial Maneuver Initialize Off-Route Tolerance
1704	WHILE Vehicle Is Travelling to the Next Maneuver Point DO
1705	Increase Off-Route Tolerance
1706	Track Dead-Reckoning Location
1707	Track (D)GPS Location
1708	IF (Dead-Reckoning Location is more than Off-Route Tolerance
1709	from (D)GPS Location THEN
1710	GOTO Replan Route
1711	END IF
1712.	IF Dead-Reckoning Location is within Maneuver
1713	Notification Window THEN
1714	Notify Operator of Next Maneuver
1715	END IF
1716	IF Dead-Reckoning Location is within Maneuver
1717	Detection Window THEN
1718	IF Next Maneuver is Detected THEN
1719	Update Dead-Reckoning Location
1720	Update DGPS Data
1721	END IF
1722	END IF
1723	UNTIL Maneuver was Detected OR
1724	Vehicle Leaves Maneuver Detection Window
725	UNTIL Destination is Reached

FIG. 17

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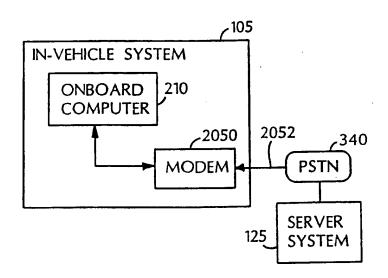
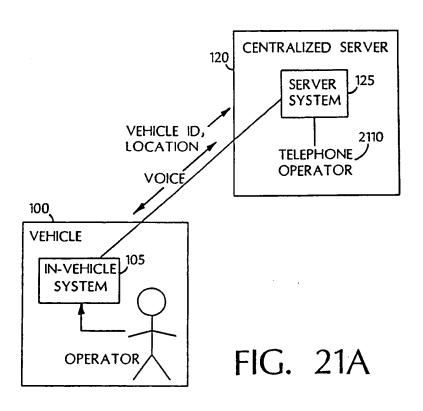
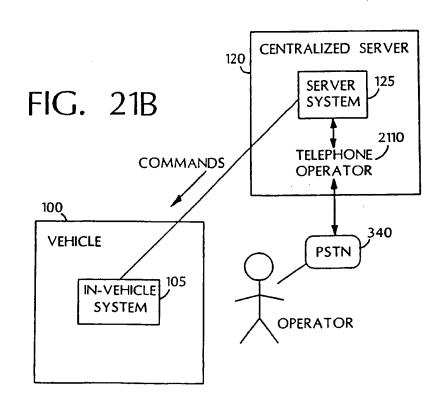


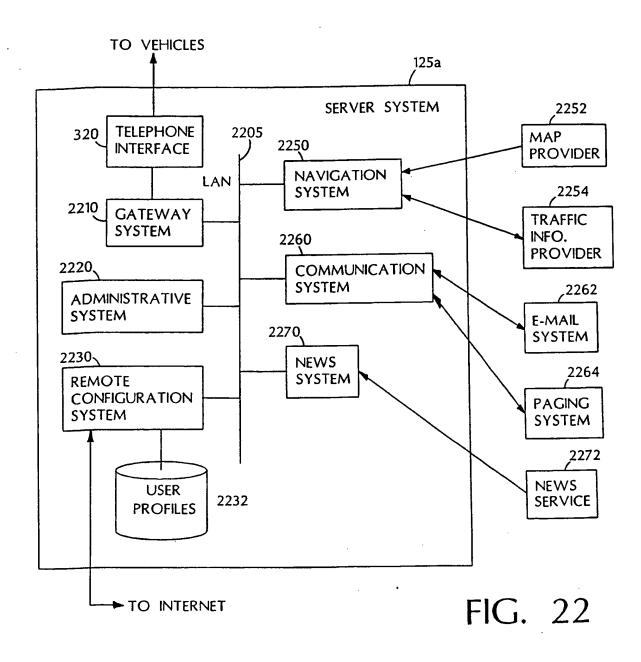
FIG. 20C

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The second secon







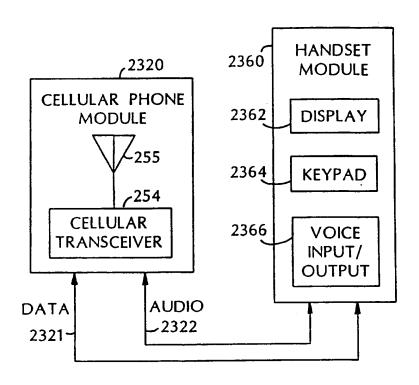


FIG. 23A

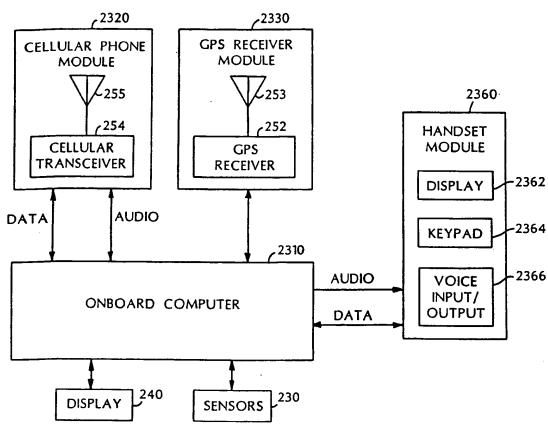


FIG. 23B

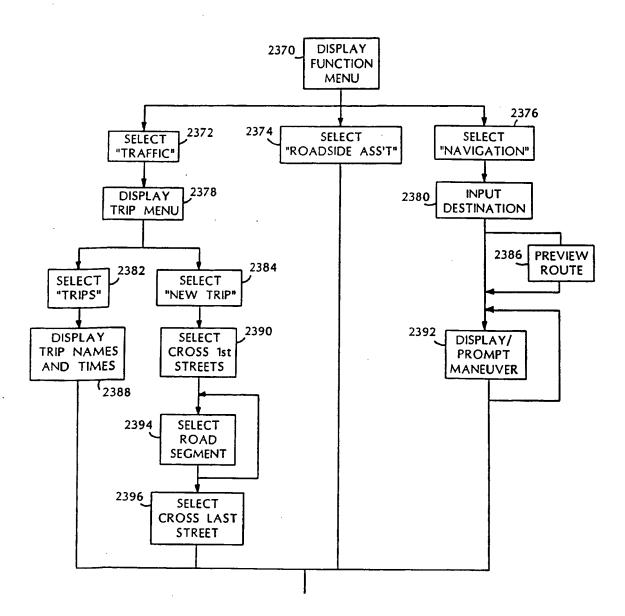


FIG. 23C

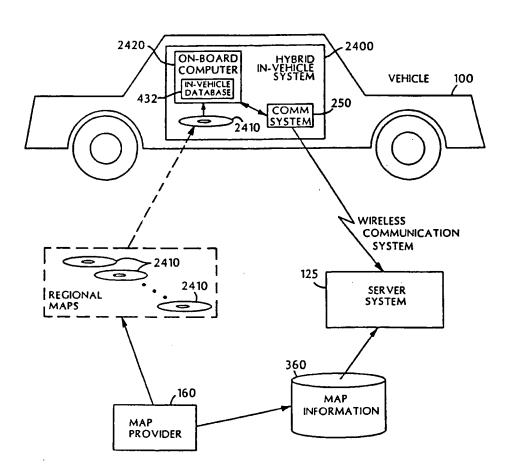
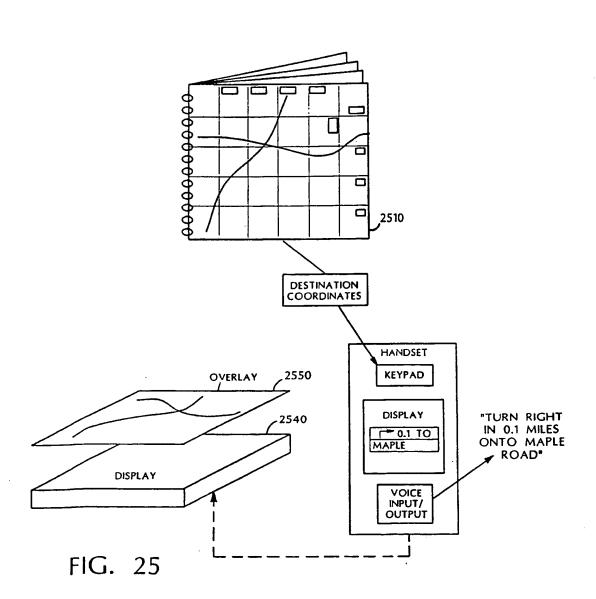
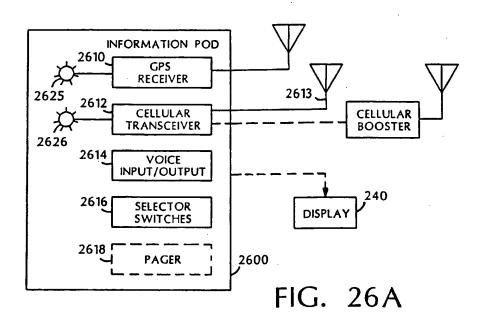


FIG. 24





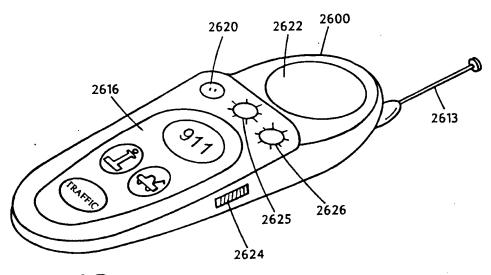


FIG. 26B